

SEVENTH ANNUAL CARNEGIE MELLON CONFERENCE ON THE ELECTRICITY INDUSTRY 2011

POSTER SESSION

1) Competitive Equilibria for Stochastic Dynamic Markets: The Integration of Wind Power

Presenter: Gui Wang (guiwang2@illinois.edu)

Advisor: Prof. Sean Meyn (meyn@illinois.edu)

Department of Electrical and Computer Engineering and the Coordinated Science Laboratory
University of Illinois at Urbana-Champaign

2) Adaptive Robust Optimization for Security Constrained Unit Commitment Problems

Authors: Dimitris Bertsimas, Eugene Litvinov, Andy Sun, Jingye Zhao and Tongxin Zheng

Presenter: Andy Sun (sunx@mit.edu)

Advisor: Prof. Dimitris Bertsimas (dbertsim@mit.edu)

Operations Research Center, Alfred P. Sloan School of Management
Massachusetts Institute of Technology

3) Residential Electricity Disaggregation - Tailored Consumption Feedback in Smart Grids

Presenter: Markus Weiss (weissm@mit.edu)

Advisor: Prof. Richard C. Larson (rclarson@mit.edu)

Engineering Systems Division
Massachusetts Institute of Technology

4) Various Power System Impacts of the Large Scale Adoption of Electric Vehicles

Presenter: Remco Verzijlbergh (R.A.Verzijlbergh@tudelft.nl)

Advisor: Prof. Marija Ilić (milic@ece.cmu.edu)

Faculty of Technology, Policy and Management
Delft University of Technology

5) Control of a Liquid Fluoride Thorium Reactor with Biogeography-Based Optimization

Presenters: Rick Rarick (rrarick_mathematikos@roadrunner.com)

Mehmet Ergezer (mehmet.ergezer@gmail.com)

Looja Ratna Tuladhar (tuladharlooja@hotmail.com)

Advisors: Prof. Dan Simon (d.j.simon@csuohio.edu)

Prof. Charles Alexander (C.K.ALEXANDER@csuohio.edu)

Prof. F. Eugenio Villaseca (f.villaseca@gmail.com)

Department of Electrical and Computer Engineering
Cleveland State University

6) A Review of the Focus Areas for the Integration of Distributed Energy Resources (DER) to the Grid

Presenter: Akhilesh Magal (apmagal@cmu.edu)

Advisor: Prof. Mario Bergés (marioberges@cmu.edu)

Environmental Engineering - Green Design
Carnegie Mellon University

7) Equity and Efficiency in Residential Electricity Pricing

Presenter: Shira Horowitz (shira@cmu.edu)

Advisor: Prof. Lester Lave (lave@cmu.edu)

Carnegie Mellon Electricity Industry Center
Carnegie Mellon University

8) Added Value of Distributed Generation to Electric Energy Systems

Presenter: Masoud H. Nazari (mhonarva@andrew.cmu.edu)

Advisor: Prof. Marija Ilić (milic@ece.cmu.edu)

Department of Engineering and Public Policy
Carnegie Mellon University

9) Can a Wind Farm with Storage Compete in the Day-ahead Market?

Presenter: Brandon Mauch (bmauch@andrew.cmu.edu)

Advisors: Prof. Jay Apt (apt@cmu.edu)

Prof. Pedro Carvalho (pcarvalho@ist.utl.pt)

Department of Engineering and Public Policy
Carnegie Mellon University

10) Wind Speed Decomposition Modeling using Fourier Transform and Markov Process

Presenter: Noha Abdel-Karim (nabdelga@andrew.cmu.edu)

Advisor: Prof. Marija Ilić (milic@ece.cmu.edu)

Department of Engineering and Public Policy
Carnegie Mellon University

11) Adaptive Load Management (ALM) Including Risk Management of Load Serving Entities

Presenter: Jhi-Young Joo (ijoo@ece.cmu.edu)

Advisor: Prof. Marija Ilić (milic@ece.cmu.edu)

Department of Electrical and Computer Engineering
Carnegie Mellon University

12) Managing Bilateral Transactions in the Electricity Market

Presenter: Sanja Cvijić (sanja13@andrew.cmu.edu)

Advisor: Prof. Marija Ilić (milic@ece.cmu.edu)

Department of Electrical and Computer Engineering
Carnegie Mellon University

13) Energy Based Nonlinear FACTS Control

Presenter: Milos Cvetković (mcvetkov@andrew.cmu.edu)

Advisor: Prof. Marija Ilić (milic@ece.cmu.edu)

Department of Electrical and Computer Engineering
Carnegie Mellon University

14) Towards Distributed Calculation of Equilibria in Electric Power Systems

Presenter: Andrew Hsu (andrewhsu@cmu.edu)

Advisor: Prof. Marija Ilić (milic@ece.cmu.edu)

Department of Electrical and Computer Engineering
Carnegie Mellon University

15) Automatic Generation and Demand Control (AGDC)

Presenter: Nipun Popli (nipun@cmu.edu)

Advisor: Prof. Marija Ilić (milic@ece.cmu.edu)

Department of Electrical and Computer Engineering
Carnegie Mellon University

16) Distributed Control for Electric Power Systems to Enable the Integration of Renewable Energy Sources

Presenter: Kyri Baker (kabaker@andrew.cmu.edu)

Advisors: Prof. Gabriela Hug (ghug@ece.cmu.edu)

Prof. Xin Li (xinli@ece.cmu.edu)

Department of Electrical and Computer Engineering
Carnegie Mellon University

17) Optimal Usage of Transmission Capacity with FACTS Devices to Enable Wind Power Integration

Presenter: Rui Yang (ruiy@andrew.cmu.edu)

Advisor: Prof. Gabriela Hug (ghug@ece.cmu.edu)

Department of Electrical and Computer Engineering
Carnegie Mellon University

18) Real-Time Control of Energy Storage Devices in Future Electric Power Systems

Presenter: Dinghuan Zhu (dinghuan@cmu.edu)
Advisor: Prof. Gabriela Hug (ghug@ece.cmu.edu)
Department of Electrical and Computer Engineering
Carnegie Mellon University

19) A Monte Carlo Framework for Probabilistic Distribution Power Flow

Presenter: Tao Cui (tcui@andrew.cmu.edu)
Advisor: Prof. Franz Franchetti (franzf@ece.cmu.edu)
Department of Electrical and Computer Engineering
Carnegie Mellon University

20) Robust State-Estimation Procedure using a Least Trimmed Squares Pre-processor

Authors: Yang Weng, Rohit Negi, Zhijian Liu and Marija Ilić
Presenter: Yang Weng (yangweng@andrew.cmu.edu)
Advisors: Prof. Rohit Negi (negi@ece.cmu.edu)
Prof. Marija Ilić (milic@ece.cmu.edu)
Department of Electrical and Computer Engineering
Carnegie Mellon University

21) Greedy PMU Placement Algorithms for Power System State Estimation

Authors: Qiao Li, Rohit Negi, and Marija Ilić
Presenter: Qiao Li (qiaoli@cmu.edu)
Advisor: Prof. Rohit Negi (negi@ece.cmu.edu)
Department of Electrical and Computer Engineering
Carnegie Mellon University